

Goose investigation in Monterey County



Stella McMillin

Department of Fish and Game

Pesticide Investigations Unit

Start of incident

- Six geese in Moro Cojo Slough retrieved in disease investigation in mid-July.
- Showed abnormal bleeding.
- Sent to lab for anticoagulant analysis.
- Chlorophacinone in all 6 livers.

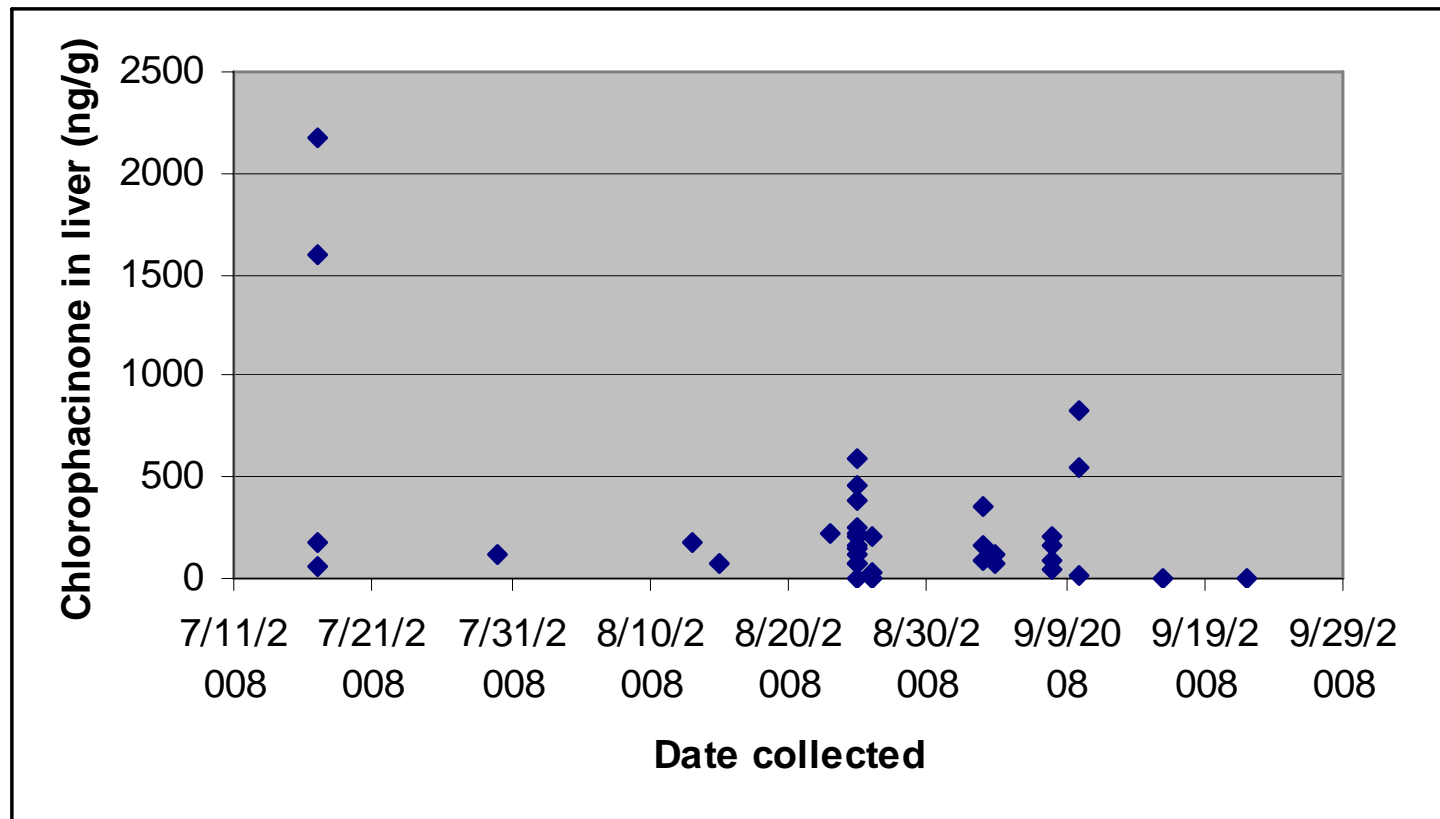


The investigation continues

- 70 geese died between July and September in the same area. 37 livers from geese analyzed – 36 positive for chlorophacinone.
- Also secondary poisoning: two turkey vultures and a barn owl.



Chlorophacinone in Goose livers



Challenges

- Many sources of chlorophacinone
- Several days between exposure and death.
- Geese fly.
- Lack of appropriate toxicity data.



More information

- Paraffin analysis (8 of 18 positive).
- Changes in use patterns (Artichokes: Rozol pellets used later in season).



Our best guess and the solution

- Rozol pellets on artichokes: present when plants are cut back.
- Amended 24(c) label: restricts use around the time of cut back. (Registrant).



Many thanks to...

- Monterey County
Agricultural
Commissioner's Office
- CDFA
- Liphatech
- DPR
- DFG Santa Cruz Lab
- Elkhorn Slough
Foundation

